What is claimed is:

1. A method for reducing an exhaust carbon dioxide comprising the steps of:

preparing agglomerates of solid particles containing at least one compound selected from the group consisting of CaO and $Ca(OH)_2$;

contacting an exhaust gas containing CO_2 with the agglomerates of the solid particles in a reaction chamber, the solid particles having a film of adhesive water on a surface of the solid particles; and

fixing CO_2 in the exhaust gas as CaCO_3 in the solid particles to reduce CO_2 in the exhaust gas.

- 2. The method according to claim 1, wherein the agglomerates of the solid particles are obtained by pulverizing materials containing CaO and/or $Ca(OH)_2$ into grain and/or rough grain.
- 3. The method according to claim 1, wherein the step of contacting the exhaust gas comprises contacting an exhaust gas containing CO_2 with the agglomerates of the solid particles by blowing the exhaust gas into the agglomerates of the solid particles.
- 4. The method according to claim 3, wherein the exhaust gas containing ${\rm CO}_2$ is blown into the agglomerates of the solid particles from one direction.

- 5. The method according to claim 1, wherein the water content in the agglomerates of the solid particles is from 3wt.% to 20wt.%.
- 6. The method according to claim 1, wherein a grain size of the solid particles is substantially 5 mm or less.
- 7. The method according to claim 1, wherein the exhaust gas be introduced into the reaction chamber has a temperature of a boiling point of water or lower within the reaction chamber.
- 8. The method according to claim 1, wherein a temperature in the reaction chamber is at a boiling point of water or lower.
- 9. The method according to claim 1, wherein a temperature of the agglomerates of the solid particles is at a boiling point of water or lower within the reaction chamber.
- 10. The method according to claim 1, wherein the step of contacting the exhaust gas containing CO_2 with the agglomerates of the solid particles comprises contacting a pressurized exhaust gas with the agglomerates of the solid particles.
- 11. The method according to claim 1, further comprising the step of saturating ${\rm H}_2{\rm O}$ in the exhaust gas, prior to

contacting the exhaust gas with the agglomerates of the solid particles.

- 12. The method according to claim 1, wherein the water content in the agglomerates of the solid particles is in a range of from 3 to 20wt.%, and the exhaust gas is blown into the agglomerates of the solid particles, to contact the exhaust gas with the agglomerates of the solid particles.
- 13. The method according to claim 12, wherein the exhaust gas introduced into the reaction chamber has a temperature of a boiling point of water or lower within the reaction chamber, the reaction chamber has a temperature of the boiling point of water or lower, and the agglomerates of the solid particles to be contacted with the exhaust gas has a temperature of the boiling point of water or lower within the reaction chamber.
- 14. The method according to claim 13, further comprising the step of saturating $\rm H_2O$ in the exhaust gas prior to contacting the exhaust gas with the agglomerates of the solid particles.
- 15. The method according to claim 1, wherein the agglomerates of the solid particles are at least one material selected from the group consisting of a slag generated in an iron and steel making process and a concrete.

- 16. The method according to claim 1, wherein the solid particles of the agglomerates are at least one material selected from the group consisting of a slag generated in an iron and steel making process and a concrete.
- 17. The method according to claim 1, wherein the agglomerates of the solid particles are at least one material selected from the group consisting of a slag generated in an iron-steel making process, a concrete, a mortar, a glass, an alumina cement and a CaO containing refractory.
- 18. An underwater immersion block produced by a method comprising the steps of:

preparing a mixture comprising a granular slag produced in a steel manufacturing process; and

producing a carboxide by a carbonation reaction of a mixture to agglomerate the mixture by using the produced carboxide as a binder.

19. A method of producing an underwater immersion block, comprising the steps of:

preparing a mixture comprising a granular slag produced in a steel manufacturing process;

forming a packed bed using the mixture; and effecting a carbonation reaction of the mixture in the packed layer to agglomerate the mixture.

20. A method of creating a seaweed bed comprising the steps of:

temporarily immersing a material comprising a heavy material in an existing seaweed bed so that marine algae adhere and grow on a surface of the material;

recovering the material and transporting the material as a seed material in a place for creating the seaweed bed; and

arranging a material for adhering the marine algae thereto around the seed material so that the marine algae on the seed material is proliferated to the other material.